

PATNO IS 5601997

DATE: JUNE 28, 2002  
LIBRARY: PATENT  
FILE: ALL

Your search request is:  
PATNO IS 5601997

Number of PATENTS found with your search request through:  
LEVEL 1... 1

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To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

1. 5601997 , February 11, 1997 , Chemotaxis assay procedure , Tchao, Ruy,  
Philadelphia College of Pharmacy and Science, 600 S. 43rd St. Philadelphia, PA  
19104, 08383058

CORE TERMS: cell, radiation, membrane, opaque, f-mlp, insert, labeled, filter,  
chemotaxis, sup ...

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5601997

<=1> GET 1st DRAWING SHEET OF 7

February 11, 1997

Chemotaxis assay procedure

REISSUE: December 23, 1999 - Reissue Application filed Dec. 23, 1999 (O.G. Mar. 7, 2000) Ex. Gp.: 1741; Re. S.N. 09/472,490 Reissue Application filed Sep. 23, 1998 (O.G. Nov. 3, 1998) Ex. Gp.: 1761; Re. S.N. 09/159,427 March 7, 2000

APPL-NO: 08383058

FILED-DATE: February 3, 1995

GRANTED-DATE: February 11, 1997

CORE TERMS: cell, radiation, membrane, opaque, f-mlp, insert, labeled, filter, chemotaxis, sup ...

ENGLISH-ABST:

A chemotaxis assay procedure which is non-destructive of the cells being studied, which permits the ready performance of kinetic or time- dependent study of cell migration from the same sample, and which produces objective measurements includes the steps of: (a) labeling cells with a dye; (b) placing the labeled cells in a first chamber; (c) placing a chemical agent in a second chamber adjacent to said first chamber; (d) separating said first chamber from said second chamber with a radiation opaque membrane, said radiation opaque membrane having a plurality of substantially perpendicular transverse pores therein; (e) stimulating the labeled cells on the side of the membrane closest to said second chamber with electromagnetic radiation of a first wavelength whereby said labeled cells will emit electromagnetic radiation of a second wavelength; and (f) measuring the emitted electromagnetic radiation from the side of the radiation opaque membrane closest to the second chamber; wherein said radiation opaque membrane comprises a film which is not substantially

5601997 OR 5,601,997

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**Current session 28/06/2002**

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Search statement 1

**Query/Command : us5601997/pn****\*\* SS 1: Results 1**

Search statement 2

**Query/Command : prt full nonstop legalall**

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1 / 1 PLUSPAT - ©QUESTEL-ORBIT

- PN** - US5601997 A 19970211 [US5601997]  
**TI** - (A) Chemotaxis assay procedure  
**IN** - (A) TCHAO RUY (US)  
**AP** - US38305895 19950203 [1995US-0383058]  
**PR** - US38305895 19950203 [1995US-0383058]  
**IC** - (A) C12Q-001/02  
**EC** - G01N-021/64H  
G01N-033/50D2  
**PCL** - ORIGINAL (O) : 435029000; CROSS-REFERENCE (X) : 435034000  
**DT** - Corresponding document  
**CT** - US4912037; US5210021; US5284753; US5302515; GB1581766  
Stephen Boyden, Ph.D., "The Chemotactic Effect of Mixtures of Antibody and Antigen on Polymorphonuclear Leucocytes" J. Exp. Med. 115: pp. 453-466, (1962).  
  
Zichia et al., A New Direct Viewing Chemotaxis Chamber, Journal of Cell Science 99, 769-775 (1991).  
  
Wilkinson, Micropore Filter Methods for Leukocyte Chemotaxis, Methods in Enzymology 162, 38-50 (1988).  
  
NeuroProbe MB Series Microtiter Plate Chambers, NeuroProbe, Inc. (1994).  
**STG** - (A) United States patent  
**AB** - A chemotaxis assay procedure which is non-destructive of the cells being studied, which permits the ready performance of kinetic or time-dependent study of cell migration from the same sample, and which produces objective measurements includes the steps of: (a) labeling cells with a dye; (b) placing the labeled cells in a first chamber; (c) placing a chemical agent in a second chamber adjacent to said first chamber; (d) separating said first chamber from said second chamber with a radiation opaque membrane, said radiation opaque membrane having a plurality of substantially perpendicular transverse pores therein; (e) stimulating the labeled cells on the side of the membrane closest to said second chamber with electromagnetic radiation of a first wavelength whereby said labeled cells will emit electromagnetic radiation of a second wavelength; and (f) measuring the emitted electromagnetic radiation from the side of the radiation opaque membrane closest to the second chamber; wherein said radiation opaque membrane comprises a film which is not substantially transmissive to at least one of said first and second wavelengths of electromagnetic radiation. The radiation opaque membrane may comprise a dyed film or a film which has at least one radiation blocking layer applied thereto.

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*1 / 1 LGST - ©LEGSTAT*

**PN** - US 5601997 [US5601997]  
**AP** - US 383058/95 19950203 [1995US-0383058]  
**DT** - US-P  
**ACT** - 19950203 US/AE-A  
APPLICATION DATA (PATENT)  
US 383058/95 19950203 [1995US-0383058]

19970211 US/A  
PATENT

19981103 US/RF  
REISSUE APPLICATION FILED  
980923

20000307 US/RF  
REISSUE APPLICATION FILED  
19991223

**UP** - 2000-10

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*1 / 1 CRXX - ©CLAIMS/RRX*

**PN** - 5,601,997 A 19970211 [US5601997]  
**PA** - Tchao, Ruy  
**ACT** - 19980923 REISSUE REQUESTED  
Issue Date of O.G.: 19981103  
Reissue Request Number: 09/159427  
Examination Group responsible for Reissue process: 1761

19991223 REISSUE REQUESTED  
Issue Date of O.G.: 20000307  
Reissue Request Number: 09/472490  
Examination Group responsible for Reissue process: 1741

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**AN** - 200010-001232  
**PN** - 5601997 A [US5601997]  
**OG** - 2000-03-07  
**ACT** - REISSUE APPLICATION FILED

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2 / 2 PAST - ©Thomson Derwent

AN - 199844-001381  
PN - 5601997 A [US5601997]  
OG - 1998-11-03  
ACT - REISSUE APPLICATION FILED

Query/Command : file inpadoc

PLUSPAT - Time in minutes : 0,40  
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Estimated cost :	1.10 USD
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LGST - Time in minutes : 0,04  
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Estimated cost :	0.04 USD
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Estimated cost :	0.57 USD
Cost estimated for the last database search :	0.61 USD
Estimated total session cost :	3.65 USD

CRXX - Time in minutes : 0,03  
The cost estimation below is based on Questel's  
standard price list

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Records displayed and billed :	1
Estimated cost :	5.00 USD
Cost estimated for the last database search :	5.04 USD
Estimated total session cost :	8.69 USD

PAST - Time in minutes : 0,04  
The cost estimation below is based on Questel's  
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Estimated cost :	0.07 USD
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Estimated cost :	11.22 USD
Cost estimated for the last database search :	11.29 USD
Estimated total session cost :	19.98 USD

LITA - Time in minutes : 0,05  
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Estimated cost :	0.09 USD
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Estimated total session cost :	20.07 USD

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Search statement 1

Query/Command : fam 5601997/pn

1 Patent Groups

**\*\* SS 1: Results 4**

Search statement 2

Query/Command : famstate nonstop

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1 / 4 INPADOC - ©INPADOC

PN - GB 9601980 A0 19960403 [GB9601980]  
TI - CHEMOTAXIS ASSAY  
PA - TCHAO RUY  
AP - GB 9601980/96-A 19960131 [1996GB-0001980]  
PR - US 383058/95-A 19950203 [1995US-0383058]

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2 / 4 INPADOC - ©INPADOC

PN - GB 2297615 A1 19960807 [GB2297615]  
TI - CHEMOTAXIS ASSAY PROCEDURE AND MEMBRANE FOR USE THEREIN  
IN - TCHAO RUY  
PA - TCHAO RUY [US]  
AP - GB 9601980/96-A 19960131 [1996GB-0001980]  
PR - US 383058/95-A 19950203 [1995US-0383058]  
IC - G01N-021/64

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1 / 1 LEGALI - ©LEGSTAT

PN - GB 2297615 [GB2297615]  
AP - GB 9601980/96 19960131 [1996GB-0001980]  
DT - GB-P  
ACTE - 19960131 GB/AE-A  
APPLICATION DATA  
GB 9601980/96 19960131 [1996GB-0001980]  
  
19960807 GB/A1  
APPLICATION PUBLISHED  
  
19990421 GB/B2 [+]  
PATENT GRANTED  
UP - 1999-18

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*3 / 4 INPADOC - ©INPADOC*

PN - GB 2297615 B2 19990421 [GB2297615]  
TI - CHEMOTAXIS ASSAY PROCEDURE AND MEMBRANE FOR USE THEREIN  
IN - TCHAO RUY  
PA - TCHAO RUY [US]  
AP - GB 9601980/96-A 19960131 [1996GB-0001980]  
PR - US 383058/95-A 19950203 [1995US-0383058]  
IC - G01N-021/64

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*1 / 1 LEGALI - ©LEGSTAT*

PN - GB 2297615 [GB2297615]  
AP - GB 9601980/96 19960131 [1996GB-0001980]  
DT - GB-P  
ACTE - 19960131 GB/AE-A  
APPLICATION DATA  
GB 9601980/96 19960131 [1996GB-0001980]  
  
19960807 GB/A1  
APPLICATION PUBLISHED  
  
19990421 GB/B2 [+]  
PATENT GRANTED  
UP - 1999-18

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PN - US 5601997 A 19970211 [US5601997]  
TI - CHEMOTAXIS ASSAY PROCEDURE  
IN - TCHAO RUY [US]  
PA - TCHAO RUY [US]  
AP - US 383058/95-A 19950203 [1995US-0383058]  
PR - US 383058/95-A 19950203 [1995US-0383058]  
IC - C12Q-001/02

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*1 / 1 LEGALI - ©LEGSTAT*

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US 383058/95 19950203 [1995US-0383058]  
  
19970211 US/A  
PATENT  
  
19981103 US/RF  
REISSUE APPLICATION FILED  
980923  
  
20000307 US/RF  
REISSUE APPLICATION FILED  
19991223  
  
**UP** - 2000-10